



# SZABO SCANDIC

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Neuropeptide W-30 (rat)

Cat. No.:	HY-P10289
CAS No.:	383415-90-5
Molecular Formula:	C <sub>165</sub> H <sub>249</sub> N <sub>49</sub> O <sub>38</sub> S
Molecular Weight:	3559.11
Sequence:	Trp-Tyr-Lys-His-Val-Ala-Ser-Pro-Arg-Tyr-His-Thr-Val-Gly-Arg-Ala-Ser-Gly-Leu-Leu-Met-Gly-Leu-Arg-Arg-Ser-Pro-Tyr-Leu-Trp
Sequence Shortening:	WYKHAVASPRYHTVGRASGLLMGLRRSPYLW
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Neuropeptide W-30 (rat) is an important stress mediator in the central nervous system that modulates the hypothalamus-pituitary-adrenal (HPA) axis and sympathetic outflow. Neuropeptide W-30 (rat) is an endogenous ligand for the two structurally related orphan G-protein-coupled receptors (GPCRs) GPR7 and GPR8. NPW-30 activates and binds to both GPR7 and GPR8 at similar effective doses <sup>[1][2][3]</sup> .
<b>In Vitro</b>	The i.c.v. administration of Neuropeptide W-30 changes secretion of anterior pituitary hormones, such as prolactin and growth hormone, and behavior, such as feeding and drinking <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Makoto Kawasaki, et al. Centrally administered neuropeptide W-30 activates magnocellular neurosecretory cells in the supraoptic and paraventricular nuclei with neurosecretion in rats. *J Endocrinol.* 2006 Aug;190(2):213-23.
- [2]. Nan-Shou Yu, et al. Effects of intracerebroventricular administration of neuropeptide W30 on neurons in the hypothalamic paraventricular nucleus in the conscious rat. *Neurosci Lett.* 2007 Mar 26;415(2):140-5.
- [3]. Yukio Shimomura, et al. Identification of neuropeptide W as the endogenous ligand for orphan G-protein-coupled receptors GPR7 and GPR8. *J Biol Chem.* 2002 Sep 27;277(39):35826-32.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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